

# Optical Fingerprint Scanner

Model : MFS500 | OEM Module / Sensor : MOPv2.0

MANTRA

## Benefits

- Easy to integrate
- Offers high accuracy
- Easier and faster to use
- USB 2.0 interface



## Features



Supports Window , Android & Linux System



Scratch free sensor surface



Latent Finger detection



High speed USB 2.0 interface with plug and play



Support 180 Degree rotation authentication



Lowest FAR and FRR



500 DPI optical fingerprint sensor



MINEX Compliance extractor



Auto Finger Detection

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MFS500 is a high-quality fingerprint scanner for accurate fingerprint authentication process. MFS500 is devised with an optical scratch free sensor for efficient recognition of poor quality fingerprint. MFS500 can be used for the process of identification, verification and authentication that captures the fingerprint images in a faster and reliable manner.

## At a Glance

### Sensor Characteristics

Parameters	Specification
Fingerprint Sensor Type	: Optical Scratch-Free Sensor
Spatial Resolution	: 500 DPI +/- 2%
Platen size	: 16.4 mm x 20.0 mm
Sensing Area	: 15 mm x 18 mm
Image Size	: 296 x 354 Pixels
Image Grayscale	: 256 (8 - Bit Gray Level)
Light Source	: RED LED
Approx Dimensions (L x W x H)	: 85 x 51 x 54 mm (Module: 61 x 23 x 28.5 mm)
Approx Weight.	: 0.123 Kg (Module : 0.025 Kg)
Maximum Acquisition Time (Placement to Template)	: < 2 Sec
Capture mode	: Auto Finger detection functionality & Auto capture with built-in quality check (incorporates NIST quality considerations)

### Electrical Characteristics

Parameters	Specification
Operating Voltage	: 5V +/- 5% (USB Powered Device)
Operating Current (max)	: <= 85 mA
Stand by Current (max)	: <= 40 mA
Interface	: USB 2.0

### Environmental Characteristics

Parameters	Specification
Operating Temperature	: 0 to 50 °C
Storage Temperature	: 0 to 50 °C
Humidity (Operating / Storage)	: < 90% RH, Non-condensing

### Compliant to Following Standard

Parameters	Specification
Biometric Data Interchange Format	: ISO 19794-2, ISO 19794-4, ANSI 378, WSQ3.1, JPEG2000
Environmental, Health and Safety	: RoHS
BIS	: IS 13252 (Part 1)
Safety	: EN / IEC 60950
EMI / EMC Compliance	: CE & FCC Part 15 B class A
Image Quality	: FBI PIV Certification, Mobile-ID FAP10
IP Rating	: IP54
Device Driver	: WHQL Certified with Unique Serial Number
Operating System	: Windows x86 & x64, Linux, Android